

## IN THE SPECIFICATION

Please replace paragraph [1030] with the following amended paragraph:

[1030] FIG. 1C depicts receiver 104 in greater detail according to an example embodiment of the present invention. Receiver 104 includes a processor 103 comprising a software module 107. The software module 107 includes instructions which embody the steps disclosed in FIGs. 3-7. As shown in FIG. 1C, a sequence of digital data  $y(n)$  is transmitted through wireless channel 110 and is corrupted by additive noise and possibly interference. The following model describes the output of adaptive equalizer 108:

$$\hat{y}(k) = \alpha y(k) + w(k),$$

where  $\alpha$  is the bias in the estimate of  $y(k)$  and  $w(k)$  represents all additive disturbances introduced by wireless channel 110. As will be apparent to those skilled in the art, this model is valid under certain conditions. The model applies particularly well when the equalizer's adaptive algorithm is in steady state, and in the proximity of the optimal solution for the filter coefficients. In practice,  $E\{\|y(k)\|^2\} = \sigma_y^2$  is known since we know the average power of the transmitted constellation.